

PHOTONICS spectra

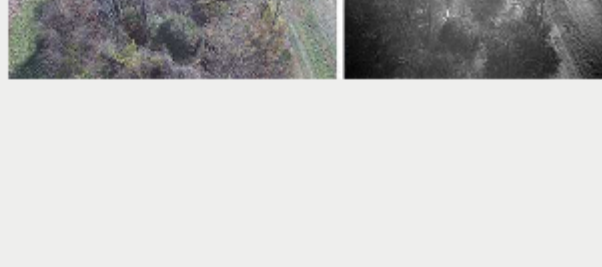


Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Manage your Photonics Media membership at Photonics.com/subscribe.

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Thermal Camera-Equipped UAVs Spot Hard-to-Find Subjects

The enormous growth in the drone, or small unmanned aerial vehicle (UAV), industry over the past five years has changed the way many industries operate. This explosion in access to affordable aerial imaging is changing the way work is done in a variety of fields, especially jobs that involve detecting people on the ground, such as search and rescue and law enforcement, and thermography jobs that require accurate noncontact temperature measurement from a bird's-eye view.



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IR Sensors Make Smart Devices Smarter

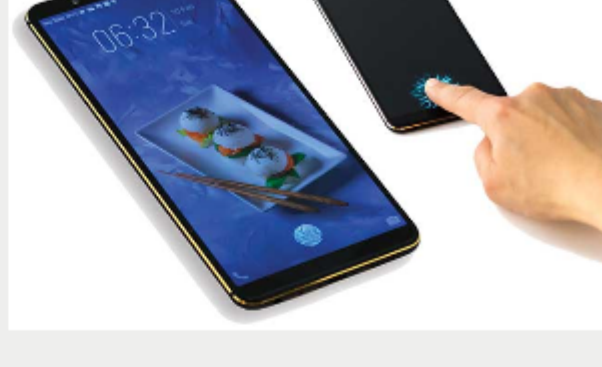
Dramatic advancements in smart technology and the Internet of Things (IoT) have occurred over the past decade, with powerful implications for industry and our everyday lives, enabled in no small measure by the development of increasingly sophisticated sensors. Today, electronic sensors and detectors allow for unprecedented automation capabilities in automobiles, manufacturing equipment, consumer products, and homes. The proliferation of mobile devices and their associated computing power, specialized apps, and virtually constant connectivity are driving consumer demand for more integrated and intelligent electronics to automate a growing variety of functions of daily life.



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Optical Sensors Support the Rise in Automation

As automation becomes an increasingly familiar feature throughout numerous industries, demand for technologies to be smarter and offer more has never been more prominent — from manufacturing a smartphone in North America to installing a pipeline in Asia. Optical sensors are essential instruments utilized in industries ranging from aerospace and defense, oil and gas, and health care and construction to consumer electronics and automotive.



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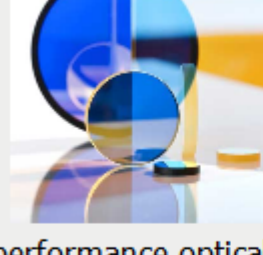
Featured Products



Precision Microstage + Controller

New Scale Technologies Inc.
This precision microstage has a built-in controller to give you the smallest system size, lowest system cost, and fastest time to market. Embed precision motion in your new handheld and portable instruments. The stage accepts high-level motion commands directly from your system processor over standard I2C or SPI serial interface.

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Alluxa Ultra Series Filters and Coatings

Alluxa
Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry.

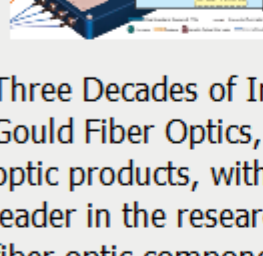
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MIDORI rvi/ndt Fiber-Optic LED Light Source

USHIO America Inc.
For decades, Ushio America, Inc. has consistently provided high quality illumination products in specialty markets world-wide. Responding to needs of customers with discerning applications, Ushio engineers have developed exceptional LED fiber-optic illuminators in compact sizes.

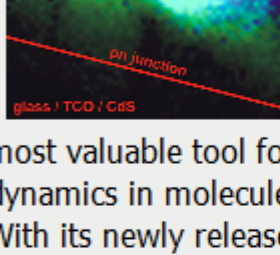
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Broadband Fiber Optic Components and Modules

Gould Fiber Optics
Three Decades of Innovative Components for Fiber Optics. Gould Fiber Optics, a leading manufacturer of passive fiber optic products, with over 30 years of proven reliability as a leader in the research, development and manufacturing of fiber optic components and integrated assembly solutions has expanded its component lines.

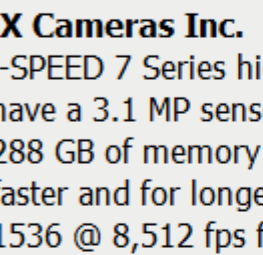
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Combined Spectrometer/Microscope

PicoQuant GmbH
Time-resolved fluorescence spectroscopy is a spectroscopist's most valuable tool for the investigation of excited state dynamics in molecules, complexes, or semi-conductors. With its newly released fiber coupling sample holder, the modular, time-resolved and steady-state spectrometer FluTime 300...

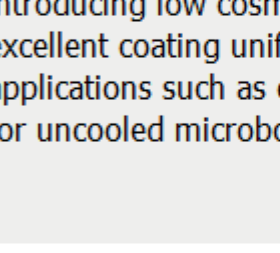
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The Fastest High-Resolution, High-Speed Cameras

IX Cameras Inc.
i-SPEED 7 Series high-speed cameras from IX Cameras have a 3.1 MP sensor that records 26 billion pixels/s. Up to 288 GB of memory allows you to capture more pixels faster and for longer. With native resolution of 2048 x 1536 @ 8,512 fps for 7.6 degrees, the i-SPEED 7 cameras capture ultra-fast movement...

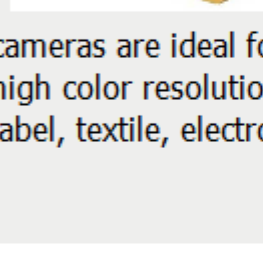
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IR Filters for Thermal Imaging and Gas Detection

Spectrogon US
Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, and introducing low cosmetic defects — while maintaining excellent coating uniformity --- for thermal imaging applications such as cryogenically cooled IR detectors and for uncooled microbolometers.

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Next Generation of Trilinear Line-Scan Cameras

Teledyne e2v (UK) Ltd.
Teledyne e2v announces its next generation of line-scan cameras — the high-resolution ELiIXA+ trilinear color range. These new 8k pixel cameras are ideal for industrial applications that require high color resolution and image sharpness such as print, label, textile, electronic and PCB inspection.

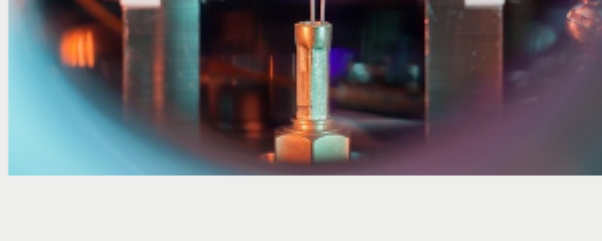
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In Case You Missed It

Atom Photo Wins EPSRC Award

An image of a single positively charged strontium atom, held near motionless by electric fields, has won the overall prize in a national science photography competition organized by the U.K.'s Engineering and Physical Sciences Research Council (EPSRC).



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Adaptive Optics Look Farther Than Ever Before

Adaptive optics remains the biggest driver of advancing adaptive optics systems, but the technique is also gaining ground for ophthalmology and deep-tissue imaging.

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Laser Instrument for Mapping World's Forests Gets Ready to Launch

A laser instrument designed to map the world's forests in high-resolution 3D is undergoing final integration and testing at NASA's Goddard Space Flight Center.

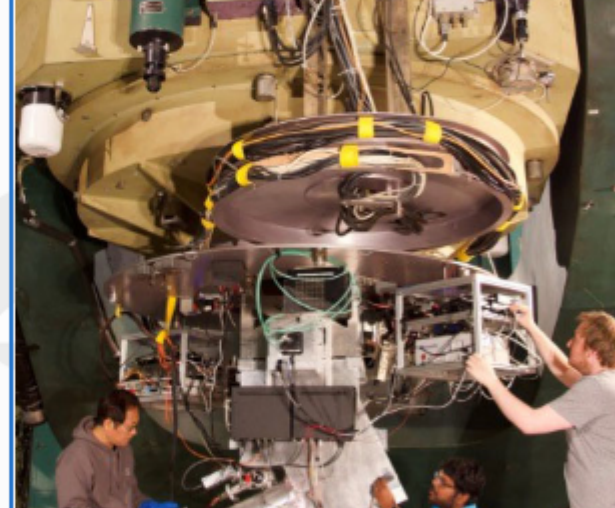
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Webinars

Optics and Astronomy

Wed, Jun 20, 2018 1:00 PM - 2:00 PM EDT
This webinar will cover optical and IR instruments for astronomy, with a particular focus on how innovations in adaptive optics and IR spectroscopy are pushing the technical and scientific envelope. The speaker will discuss how these optical tools can be used to make extremely sensitive and high fidelity measurements of astronomical objects at next-generation extremely large optical telescopes like the Thirty Meter Telescope (TMT). The design and fabrication of novel astronomical instrumentation will be covered from both a scientific and an engineering standpoint.



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Coming in July...

Features

Flexible LEDs, Extreme UV for Lithography, Integrated Photonics, Coatings, Photovoltaics

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *Photonics Spectra*. Please submit an informal 100-word abstract to Managing Editor Mike Wheeler at michael.wheeler@photonics.com or use our online submission form www.photonics.com/submitfeature.aspx.

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